

Advising the Congress on Medicare issues

#### Measuring low-value care

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#### Overview

- Definition of low-value care
- Claims-based measures of low-value care
- We applied 31 measures to 2012 and 2013
  Medicare claims
- Results of our analysis
- Potential policy directions

#### Low-value care

#### Definition

- Services with little or no clinical benefit
- When risk of harm from a service outweighs potential benefit
- Potential to harm patients
  - Direct: Risks from low-value service itself
  - Indirect: Service may lead to cascade of additional tests and procedures that contain risks but provide little or no benefit
- Increases health care spending

### Motivation for examining low-value care

- Several recent studies of low-value care
- Choosing Wisely: over 70 medical societies identified over 400 tests and procedures that are often overused
- Commission supports value-based insurance design (part of benefit redesign)
- When measuring quality, important to look at overuse in addition to underuse

### Researchers developed claimsbased measures of low-value care

- Articles in JAMA Internal Medicine (Schwartz et al. 2014 and 2015)
- Measures based on Choosing Wisely, USPSTF\*, literature, other sources
- 2 versions of each measure
  - Broad (higher sensitivity)
  - Narrow (higher specificity)



### Examples of low-value care measures

Measure	Source	Broader version	Narrower version
Imaging for nonspecific low back pain	Choosing Wisely	Back imaging w/diagnosis of low back pain	Excludes certain diagnoses; limited to imaging within 6 wks of back pain diagnosis
Colon cancer screening for older patients	USPSTF	Colorectal cancer screening for all patients aged ≥ 75	Only patients aged ≥ 85 w/no history of colon cancer
Head imaging for uncomplicated headache	Choosing Wisely	CT or MRI imaging of head for headache (not thunderclap or post-traumatic)	Excludes diagnoses that warrant imaging



Note: USPSTF (U.S. Preventive Services Task Force), CT (computed tomography). Source: Schwartz et al. 2014.

### Our analyses of low-value care measures

- Last year, we applied 26 measures to 2012 data (100% claims)
  - Spending based on standardized prices from 2009
  - Presented results at April 2015 meeting;
    published in data book and March report
- This year, we applied 31 measures to 2012 and 2013 data
  - Updated standardized prices from 2009 to 2012

## Our analysis of 31 low-value care measures: Aggregate results, 2013

#### Broader measures

- 38% of beneficiaries received at least one lowvalue service
- 74 low-value services per 100 beneficiaries
- Medicare spending on low-value care: \$7.1 billion

#### Narrower measures

- 23% of beneficiaries received at least one lowvalue service
- 35 low-value services per 100 beneficiaries
- Medicare spending on low-value care: \$2.6 billion



### Some categories of low-value care account for most of volume, spending

	Broader version of measures	Narrower version of measures
Categories that account for most of volume	<ul><li>Imaging</li><li>Cancer screening</li></ul>	<ul><li>Imaging</li><li>Diagnostic and preventive testing</li></ul>
Categories that account for most of spending	<ul><li>Cardiovascular tests/procedures</li><li>Other surgical procedures</li></ul>	<ul><li>Other surgical procedures</li><li>Imaging</li></ul>



# Results for selected individual measures, 2013

Measure	Broader version		Narrower version	
	Count per 100 patients	Spending (millions)	Count per 100 patients	Spending (millions)
Imaging for nonspecific low back pain	11.9	\$236	3.4	\$68
PSA screening at age ≥ 75 yrs	9.2	82	5.2	47
Colon cancer screening for older adults	8.4	443	0.4	4
Spinal injection for low-back pain	6.4	1,261	3.3	654



# Results probably understate volume and spending on low-value care

- Limited number of claims-based measures of lowvalue care
- Challenging to identify low-value care with claims data
- Spending estimates for low-value care don't include downstream services that result from the initial service
- Study estimated that Medicare spent \$145 million/year on PSA tests + related diagnostic services for men age ≥ 75 (Ma et al. 2014)
  - PSA tests accounted for 28% of spending
  - Biopsies accounted for 50%, pathology for 19%



# Pioneer ACOs reduced low-value care compared with control group (Schwartz et al. 2015)

- Researchers compared change in use of lowvalue care between beneficiaries in Pioneer ACOs and control group of other beneficiaries
- 31 measures
- ACOs had greater reduction in volume (-1.9%) and spending (-4.5%) for low-value care relative to control group

### Potential policy directions

- Payment/delivery system reform (e.g., ACOs)
- Quality measurement
- Medicare coverage policy
- Increase beneficiary engagement (e.g., cost sharing, shared decision making)